

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P316934

Luminaire Tested: **GLEON-SA0C-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0C-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53089 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

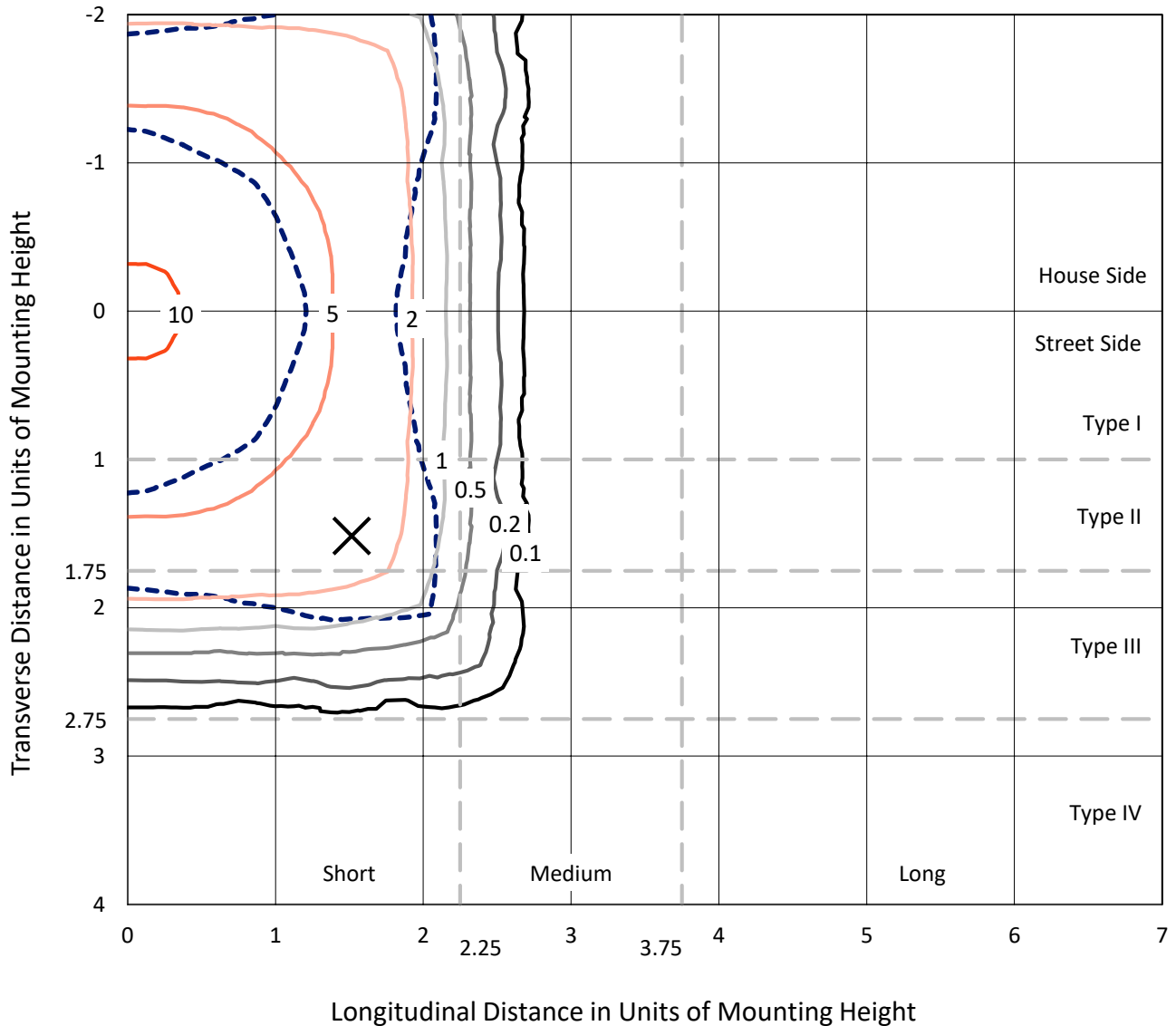
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

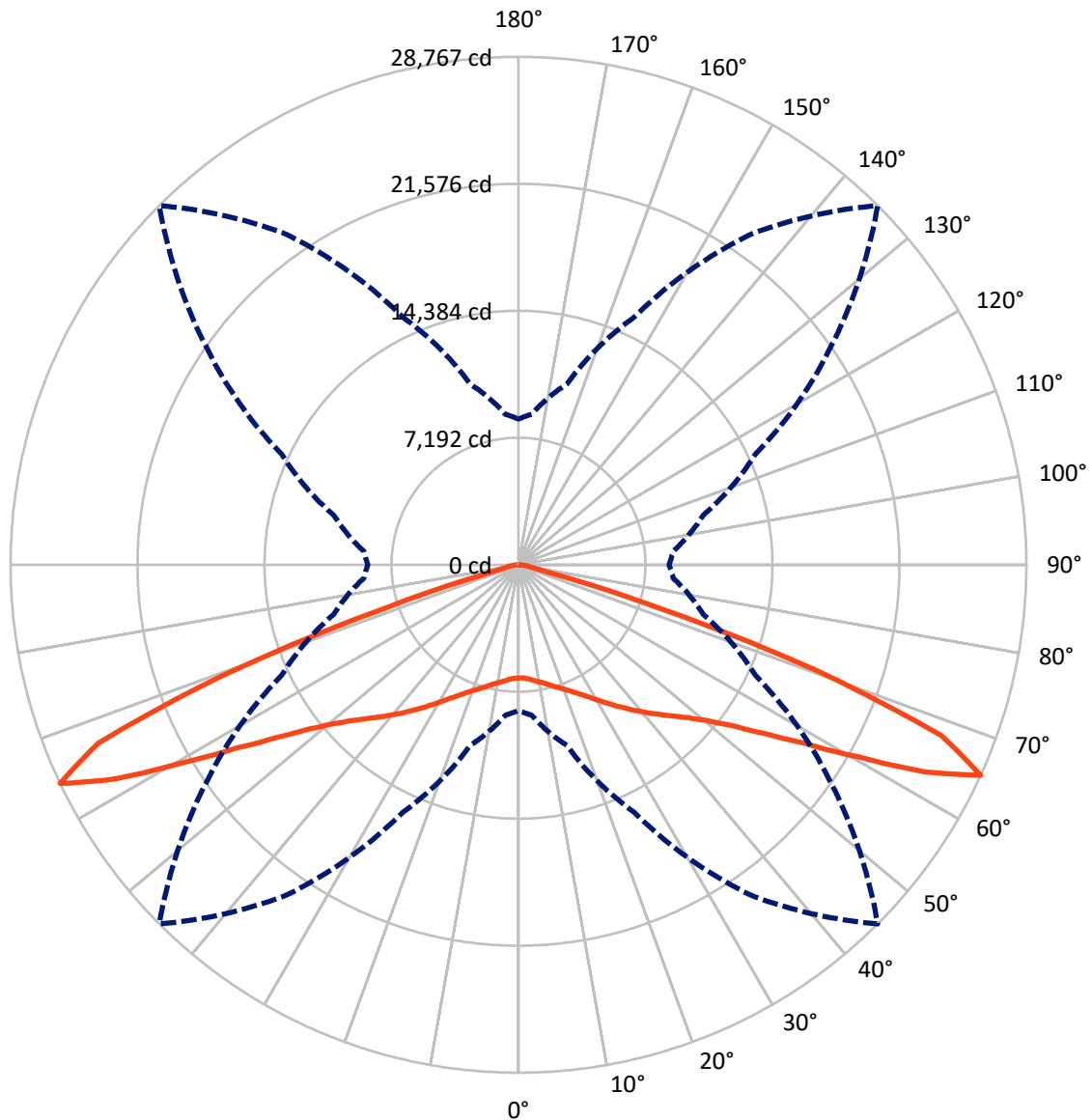
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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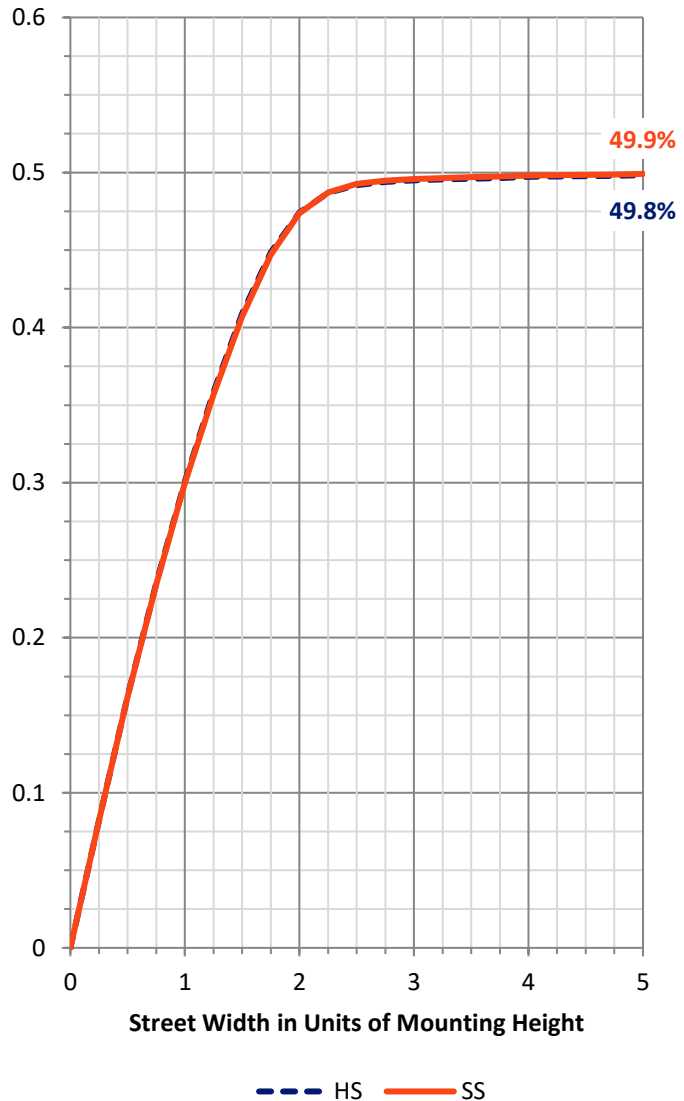
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26544.5	0.0	26544.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26544.5	0.0	26544.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53089.0	0.0	53089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.0	1.2
10°-20°	2021.8	3.8
20°-30°	3793.4	7.1
30°-40°	6273.5	11.8
40°-50°	9716.7	18.3
50°-60°	14902.8	28.1
60°-70°	13906.0	26.2
70°-80°	1618.5	3.0
80°-90°	227.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	53089.0	100.0
0°-180°	53089.0	100.0

**Coefficient of Utilization**

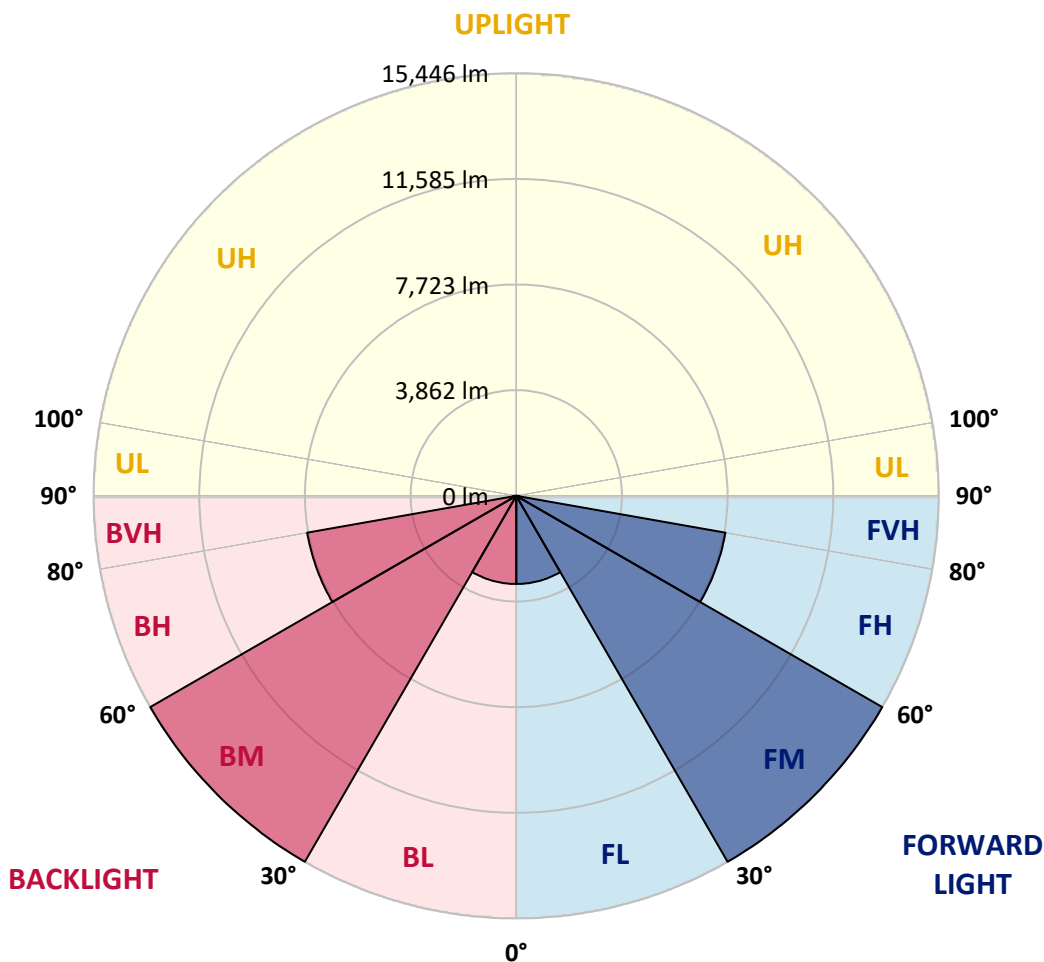


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3222.1	6.1			
FM (30°-60°)	15446.5	29.1			
FH (60°-80°)	7762.2	14.6			G4/12000
FVH (80°-90°)	113.7	0.2			G2/225
BL (0°-30°)	3222.1	6.1	B4/5000		
BM (30°-60°)	15446.5	29.1	B5		
BH (60°-80°)	7762.2	14.6	B5		G4/12000
BVH (80°-90°)	113.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6411.2	6411.2	6411.2	6411.2	6411.2	6411.2	6411.2	6411.2	6411.2	6411.2	6411.2
2.5°	6432.3	6428.8	6432.3	6434.1	6423.5	6428.8	6427.0	6435.8	6439.4	6435.8	6435.8
5°	6506.3	6501.0	6508.1	6516.9	6502.8	6506.3	6501.0	6511.6	6515.1	6508.1	6513.4
7.5°	6608.5	6610.3	6617.4	6633.2	6624.4	6631.5	6620.9	6622.6	6620.9	6610.3	6612.1
10°	6719.6	6721.3	6733.7	6754.8	6758.3	6758.3	6751.3	6746.0	6739.0	6731.9	6733.7
12.5°	6853.5	6862.3	6871.1	6897.6	6897.6	6911.7	6908.1	6894.0	6881.7	6871.1	6871.1
15°	7035.0	7033.3	7043.8	7070.3	7082.6	7105.5	7105.5	7086.1	7070.3	7059.7	7056.2
17.5°	7225.3	7230.6	7237.7	7269.4	7288.8	7315.2	7318.7	7302.9	7292.3	7278.2	7269.4
20°	7447.4	7456.2	7484.4	7496.7	7514.4	7539.0	7547.8	7544.3	7533.7	7526.7	7528.5
22.5°	7706.4	7729.4	7747.0	7764.6	7785.7	7803.4	7812.2	7824.5	7813.9	7808.7	7805.1
25°	8020.1	8036.0	8071.2	8103.0	8117.1	8122.3	8132.9	8150.5	8148.8	8136.4	8136.4
27.5°	8376.1	8406.1	8450.1	8495.9	8495.9	8478.3	8513.6	8543.5	8533.0	8517.1	8495.9
30°	8807.9	8836.1	8887.2	8950.6	8918.9	8906.6	8954.1	9008.8	8992.9	8966.5	8962.9
32.5°	9273.1	9299.5	9366.5	9435.2	9394.7	9377.1	9428.2	9507.5	9479.3	9426.4	9394.7
35°	9777.1	9803.6	9898.7	9981.5	9912.8	9882.9	9925.2	10011.5	9962.2	9863.5	9838.8
37.5°	10325.2	10339.3	10462.6	10547.2	10499.7	10420.4	10473.2	10536.7	10494.4	10374.5	10327.0
40°	10894.4	10945.5	11088.3	11186.9	11104.1	10979.0	11067.1	11155.2	11091.8	10938.5	10857.4
42.5°	11558.8	11597.6	11787.9	11876.0	11742.1	11565.8	11685.7	11805.5	11742.1	11594.0	11523.5
45°	12249.6	12309.5	12536.8	12625.0	12431.1	12207.3	12353.6	12563.3	12558.0	12344.8	12270.7
47.5°	13002.1	13062.0	13333.4	13449.7	13240.0	12940.4	13146.6	13442.7	13421.5	13187.1	13127.2
50°	13870.9	13934.3	14272.7	14419.0	14223.3	13874.4	14184.6	14445.4	14406.6	14117.6	14122.9
52.5°	14961.7	14958.2	15379.4	15633.2	15432.3	15123.9	15409.4	15663.1	15502.8	15102.7	15090.4
55°	15916.9	15975.1	16496.7	16977.8	16965.5	16847.4	16961.9	16972.5	16514.3	15982.1	15916.9
57.5°	16544.3	16655.3	17390.2	18260.7	18912.8	19069.6	18847.6	18174.4	17101.2	16250.0	16146.0
60°	16158.3	16327.5	17481.8	19256.4	21177.3	22099.0	20846.0	18757.7	16644.7	15458.7	15317.7
62.5°	13553.7	13839.2	15529.2	18775.3	23126.4	25820.9	22294.6	17821.9	14829.6	13195.9	12954.5
65°	8254.5	8555.9	10593.1	15453.4	22810.9	28767.4	21633.7	14792.6	10823.9	8792.0	8531.2
67.5°	2750.9	2839.0	4039.1	8541.8	17927.7	25847.3	17957.6	8855.4	4710.6	3122.8	3031.1
70°	1076.8	1085.6	1281.2	2476.0	8466.0	17753.2	9341.8	2520.1	1339.3	1059.1	1082.0
72.5°	791.3	794.8	849.4	1034.5	2206.4	7821.0	2285.7	1039.7	826.5	741.9	741.9
75°	636.2	636.2	675.0	754.3	988.6	1794.0	1002.7	745.4	646.8	592.1	585.1
77.5°	502.2	512.8	542.8	593.9	669.7	863.5	694.3	590.4	521.6	470.5	460.0
80°	373.6	384.2	433.5	458.2	481.1	599.2	512.8	461.7	412.4	352.5	341.9
82.5°	245.0	255.5	317.2	331.3	326.0	391.2	345.4	340.1	303.1	227.3	216.8
85°	160.4	163.9	211.5	220.3	202.7	178.0	220.3	232.6	211.5	148.0	142.7
87.5°	75.8	75.8	107.5	100.4	91.6	74.0	100.4	118.1	119.8	72.3	70.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)